

SUPPLEMENT

THE INSTITUTION OF PRODUCTION ENGINEERS, 10 CHESTERFIELD STREET, MAYFAIR, LONDON, W.1

SUMMER MEETING, LONDON

27th JUNE, 1960

2.45 p.m. — The Viscount Nuffield Paper

The 1960 Viscount Nuffield Paper at the Royal Institution, Albemarle Street, London, W.1.

Speaker : Sir Stanley Rawson

Subject : Machine Tool Development and the National Economy, with special emphasis on future trends.

7.30 p.m. to midnight — Conversazione

The President's Reception and Conversazione for members and their ladies will be held at The Royal Festival Hall, London, from 7.30 p.m. on Monday evening, 27th June, 1960.

The programme will include dancing, concerts in the Auditorium by the Band of The Life Guards, cabaret by well-known artists, and other attractions which are being planned for the entertainment of members and their ladies and guests. Supper will be served in the restaurants at intervals throughout the evening, and bars will be available in the Foyer and on the fourth floor level, until midnight.

The Institution has the use of the entire Hall for the evening and is fortunate to obtain such a magnificent venue for this function. The Royal Festival Hall has six levels ; the open air roof gardens on the sixth floor level as well as the terraces on the second level will be open during the evening.

The price of the tickets — £3 3s. 0d. — is inclusive, with the exception of drinks. Dress will be dinner jackets or evening dress with decorations.

Application forms for tickets for the Summer Meeting appear overleaf. In the event of over-subscription, tickets will be allotted in strict alphabetical order of receipt of application.

Symposium on "Machine Tool Control Systems" — see page 5

APPLICATION FORM

To : The Secretary,
The Institution of Production Engineers,
10 Chesterfield Street,
Mayfair, London, W.1.

DATE RECEIVED AT HEAD OFFICE

MEMBER/NON MEMBER

SUMMER MEETING — 27th JUNE 1960

CONVERSAZIONE

Please supply me with tickets at £3 3s. 0d. each. I enclose cheque for £ : :

NAME.....

GRADE.....

HONOURS, DEGREES, OTHER QUALIFICATIONS.....

ADDRESS.....
.....

I SHALL BE ACCOMPANIED BY THE FOLLOWING GUEST(S) :

Name.....

Address.....
.....

Honours, degrees, other qualifications.....

Name.....

Address.....
.....

Honours, degrees, other qualifications.....

(names of further guests may be shown on an additional sheet)

Please note that cheques, etc., should be made payable to "The Institution of Production Engineers". Receipts will not be issued. Tickets and Programmes will be sent in good time.

THE 1959 GEORGE BRAY MEMORIAL LECTURE

"THE PACKAGING OF ENGINEERING PRODUCTS"

The 1959 George Bray Memorial Lecture will be presented in the Grand Council Chamber of the Federation of British Industries, 21 Tothill Street, London, S.W.1, on **Wednesday, 1st June, 1960**, at **6.30 p.m.** Tea will be served from 5.30 p.m.

The speaker will be **Mr. C. H. Bulmer**, of The Printing, Packaging and Allied Trades Research Association, who has taken as his subject :

"THE PACKAGING OF ENGINEERING PRODUCTS"

The President of the Institution, Mr. G. Ronald Pryor, will be in the Chair, and the Paper will be followed by a discussion.

Admission to the meeting is open to members and non-members of the Institution, but will be by ticket only, which may be obtained by completing and returning the application form below.

To : **The Secretary,**
The Institution of Production Engineers,
10 Chesterfield Street, Mayfair, London, W.1.

THE 1959 GEORGE BRAY MEMORIAL LECTURE

Please send me..... ticket(s) for the meeting at The Federation of British Industries, 21 Tothill Street, London, S.W.1, on **Wednesday, 1st June, 1960**, at **6.30 p.m.**

I shall/shall not require tea.

NAME.....

**PLEASE
WRITE
CLEARLY**

ADDRESS.....

To : **The Secretary,**
The Institution of Production Engineers,
10 Chesterfield Street, Mayfair, London, W.1.

SUMMER MEETING — 27th JUNE, 1960

THE 1960 VISCOUNT NUFFIELD PAPER

Please send me, when available ticket(s) for the meeting at The Royal Institution, Albemarle Street, London, W.1., on **Monday, 27th June, 1960**, at **2.45 p.m.**

NAME.....

**PLEASE
WRITE
CLEARLY**

ADDRESS.....

In the event of over-subscription, tickets will be allotted in strict date order of receipt of application.

MIDLANDS REGION MEETING

A one-day Meeting has been organised by the Midlands Region of the Institution, and will take place on **Wednesday, 25th May, 1960**, at the Hadley Castle Works of Joseph Sankey & Sons Ltd., Wellington, Shropshire, by kind permission of the Directors.

Two Papers are to be presented at the Meeting, which will commence at 9.30 a.m.

1. "Future Developments in Presses and Presswork" by **Adolf E. Waltman**, Dip.-Ing., Technical Manager, Overseas Operation, The Clearing Division of U.S. Industries, Inc., Chicago.
2. "Industrial Metal Finishing Techniques" by **J. J. Stordy**, B.Sc., and **W. G. J. Appleton**, M.I.Mech.E., M.Inst.F., The Stordy Engineering Company, Wolverhampton.

Accommodation is limited to 120 delegates, and applications for tickets (price 17s. 6d. each) should be made to the Regional Honorary Secretary, Mr. A. C. Turner, A.M.I.Prod.E., The Flat, Norwich Union Offices, Angel Place, Worcester.

FACTORY PLANNING SEMINAR - 7th/8th June, 1960

A special two-day seminar on Factory Planning is being presented at the Institution's Headquarters in June, by **Professor W. Grant Ireson**, of The University of California.

The programme will cover the objectives of factory planning; factory planning procedures and techniques; making decisions in developing a plan.

In order that the seminar may be of the greatest value to delegates, the numbers will be strictly limited, and those wishing to attend are advised to make early application for places and further details to the Secretary of the Institution, 10 Chesterfield Street, Mayfair, London, W.1.

The fee to members of the Institution is £4 4s. 0d. and to non-members £5 5s. 0d. All remittances should be made payable to "The Institution of Production Engineers".

B.P.C. VARIETY REDUCTION SEMINARS — 1959/60 SEASON

Members of The Institution of Production Engineers are cordially invited to attend the Variety Reduction Seminars being organised during 1960 by Local Productivity Committees and Associations.

During May and June, meetings will be held in **Plymouth**, on **3rd and 4th May** (local Secretary: Mr. J. Pedley, Transport and General Workers Union District Organiser, 5 Devonshire Villas, Pennycomequick, Plymouth); in **Newcastle**, on **30th and 31st May** (local Secretary: Mr. P. R. Walton, Tyneside Productivity Committee, 18 Ridley Place, Newcastle-upon-Tyne, 1); and in **South London** on **14th and 15th June** (local Secretary: Mr. J. S. Jones, Samuel Jones & Co. Ltd., Camberwell, S.E.15).

Fuller details of these meetings may be obtained from the local Secretaries referred to above.

"MACHINE TOOL CONTROL SYSTEMS"

SYMPORIUM — COLLEGE OF AERONAUTICS, CRANFIELD — 24th - 28th AUGUST, 1960

Wednesday, 24th August (Evening)

Introduction by the President of the Institution, **Mr. G. Ronald Pryor.**

"Design" by **Dr. F. Koenigsberger, M.I.Prod.E.**, Faculty of Technology, University of Manchester.

"Overall Control" by **Mr. Stafford Beer**, Head of the Department of Operational Research and Cybernetics, United Steel Companies.

Thursday, 25th August

"Automatic Sizing and Positioning."

Papers by **Professor J. Loxham, M.I.Prod.E.**, Department of Aircraft Economics and Production, College of Aeronautics; and **Mr. V. W. Stanley**, Standards Division, National Physical Laboratory.

Friday, 26th August

"Applications of Control Systems to Jobbing, Batch and Quantity Production."

Three Papers by speakers from the Royal Ordnance Factories and Vauxhall Motors Ltd.

Saturday, 27th August

"Economics of Cutting Processes."

Paper by **Mr. J. Cherry, A.M.I.Prod.E.**, College of Aeronautics.

"Design of Machine Tools."

Paper by **Professor Whitfield**, College of Aeronautics.

All Papers will be followed by open discussion, and demonstrations and exhibitions of the latest equipment are being arranged. The Symposium ends on Sunday morning, 28th August.

Fees: The inclusive fee for the Symposium, which will also cover accommodation, meals and gratuities, is **12 guineas**. Detailed joining instructions and a copy of the final programme will be sent to all those attending. As the numbers attending the Symposium will be limited to the amount of accommodation available at the College, the application form below should be completed and returned to the Secretary of the Institution as soon as possible.

To : **The Secretary,**
The Institution of Production Engineers,
10 Chesterfield Street, Mayfair, London, W.1.

SYMPORIUM ON "MACHINE TOOL CONTROL SYSTEMS"

CRANFIELD, 24th - 28th AUGUST, 1960

I wish to attend the above Symposium and I enclose remittance for £12 12s. 0d. (made payable to The Institution of Production Engineers).

NAME.....

PLEASE state the ADDRESS.....

WRITE.....

CLEARLY PRESENT APPOINTMENT.....

ORGANISATION.....

PRODUCTION APPOINTMENTS

BULLETIN No. 80
MAY 1960

The last date for receiving material for insertion in the following month's bulletin is the 20th of each month, and cancellations cannot be accepted after this date. Correspondence should be addressed to : The Publications Department, The Institution of Production Engineers, 10 Chesterfield Street, Mayfair, London, W.1 (Telephone: GROsvenor 5254).

RATES — Run-on, per appointment : £4 4s. 0d. up to 100 words; £1 1s. 0d. for each additional 100 words or part thereof.

Special rate for firms affiliated to the Institution, technical colleges and universities: £2 2s. 0d. per appointment up to 100 words, and 10s. 6d. for each additional 100 words or part thereof.

Displayed : £6 per single-column inch (column width 3½ in.). Special rate for firms affiliated to the Institution, technical colleges and universities: £5 10s. 0d. per single-column inch. Agency discount on displayed advertisements 10%.

Advertisers are advised that better response is likely if, in addition to essential qualifications, the following information is given :

(a) Location of appointment; (b) Status in the organisation and scope of promotion; (c) Salary range and age range. Advertisers are asked to advise the Institution when appointments are filled. The Institution reserves the right to refuse or withdraw any announcement and also to make any alteration in the wording to ensure conformity with the Institution standards. *Members interested in the following appointments should make application in accordance with the terms of notice. No correspondence can be undertaken by the Secretary other than the forwarding of replies to Box Nos.*

PRODUCTION MANAGER

Applications are sought from experienced production executives for the position of Production Manager of a unit employing some 700 people. The unit is engaged in the mass production of high quality commercial electronic and allied equipment in a highly competitive field.

As well as production management, applicants should have a background of production engineering and production control, should be accustomed to working to tight schedules and exercising rigid cost control.

Outstanding leadership, drive and initiative, and the ability to work under high pressure for long periods, coupled with an equable temperament, are the major personal qualities needed for this appointment. The rewards are good and the possibility of personal advancement considerable.

Apply in the first instance to Box No. 1950,
IProd.E., 10 Chesterfield Street, Mayfair,
London, W.1.

Production Engineer required as Deputy Department Manager for Sheffield steel and tool manufacturing company. The position requires adequate professional and practical experience of light engineering for wide range of products involving press work, machining and precision grinding. Applicants must have ability, personality, tact, drive and enthusiasm, to take over within 12 months full control of department with 150 work people. Age range 35-40. Contributory pension scheme. Box No. 1944, IProd.E., 10 Chesterfield Street, Mayfair, London, W.1.

PRODUCTION & METHODS ENGINEERS

B.S.R. Limited have vacancies for Production Engineers at their factories at Stourbridge and Old Hill, Staffordshire. Applicants must have served a full engineering apprenticeship and have a number of years' experience on small electro-mechanical mechanisms. The posts are permanent with a pension scheme. Write, giving fullest details, including age, technical qualifications, positions held and salary required to :

Personnel Manager, Birmingham Sound Reproducers Limited,
Old Hill, Staffordshire

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Post-graduate Course in Production Engineering

Applications are invited from Graduates for a one-year full-time course in Production Engineering leading to the Diploma of the Imperial College (D.I.C.), which will begin in October, 1960. The course will include lectures in industrial engineering, management, operational research, production technology, laboratory work, etc.

Further particulars can be obtained from :
The Registrar, Imperial College, London, S.W.7.

THE GLACIER METAL CO., LTD.

have a vacancy for an

ENGINEERING MANAGER

to command a group of 13 engineers, draughtsmen, tracers, and clerks, engineering the high speed production of thin-wall bearings. The person appointed will be responsible to the Unit Manager for all engineering aspects of production. This demands continuous review of the uses to which existing machines and equipment are put, and the development of machines and equipment in the longer term. The work requires an understanding of presses, plating plant, machine tools and high speed transfer line techniques.

Requirements : Degree, A.M.I.Mech.E., or A.M.I.Prod.E.; apprenticeship or equivalent; several years' experience in methods development close to production. Preferred age, 27-35. Must have the capacity to lead a team of engineers, be a source of good engineering ideas, and have the ability to influence operational managers to use the best methods.

Salary: £1,100 to £1,650 (probably starting in the lower half).

Personnel Manager (Ref.: 2595), The Glacier Metal Co. Ltd., Ealing Road, Alperton, Wembley, Middlesex.

Ambitious Plastic Injection Mould Designer, preferably with good technical qualifications, wanted by old-established progressive Company who can offer an exceptional opportunity for advancement with good salary and conditions, pension scheme and permanency. Apply : Works Director, Paton, Calvert & Co. Ltd., Binns Road, Liverpool, 13.

Service Manager, age 28-35, required to take charge of Department engaged on repairs of Flexible Shaft Power Tools. Sound knowledge of electric motors essential and ability to handle correspondence. Apply : Flextol Engineering Co. Ltd., The Green, Ealing, London, W.5 (Telephone : Ealing 6444).

PRODUCTION CONTROLLER

★

The Weldless Steel Tube Company — specialists in hot steel working — seek an experienced administrator to become Production Controller at their factory near Wolverhampton. He will be responsible to the Managing Director for planning production — though not for the actual production itself. His department exercises planning control from raw material to finished product, including the examination of production methods and improving the utilisation of plant, materials and services.

★

This post will be attractive to men of a good degree standard, preferably with a professional engineering qualification, aged 30-40, with managerial background, knowledge of modern production control techniques and responsible experience in planning, progressing and statistical control.

★

Starting salary may be on either side of £1,750 and there are excellent prospects for a man with drive and administrative common sense.

★

Write briefly in strictest confidence to :

The Managing Director (RW.62),

EXECUTIVE APPOINTMENTS LIMITED,

78 Wigmore Street, London, W.1.

CHIEF WORK STUDY ENGINEER

required by

THOMAS WHITE & SONS LIMITED,
LAIGHPARK WORKS, PAISLEY,
RENFREWSHIRE.

Applicants must have had sound engineering training in both Method and Work Study and have experience of applying same in general engineering. Salary to be negotiated, but approximately £1,100.

Apply in confidence to : WORKS MANAGER.

Engineer with initiative and a detailed knowledge of manufacturing methods required by PERA for full-time liaison duties. This is an extremely interesting senior position for a competent production engineer who enjoys travelling and meeting executives and production personnel in all sections of industry. Duties involve visiting works throughout Great Britain. Car provided and travelling expenses paid. Excellent superannuation system. Details of age, experience and qualifications to : The Secretary (S.663), Production Engineering Research Association, Melton Mowbray, Leicestershire.

CHIEF INSPECTOR

TOOLING MANAGER

● Applications are invited for the position of CHIEF INSPECTOR in a large Plastics Moulding Company. Essential requirements are substantial experience of a similar nature, an engineering apprenticeship and H.N.C. or similar academic qualification.

The successful applicant will be responsible for the reorganisation and building of an inspection and quality control organisation covering all the firm's products including vacuum and sheet formings, injection, compression mouldings and reinforced plastics. A knowledge of Government Department Procedure is required and the Chief Inspector will be expected to work closely with other technical and administrative personnel.

There is opportunity for an excellent career and applicants should submit details of their age, qualifications and experience to : Box No. 1947, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

● Applications are invited for the position of TOOLING MANAGER with a large Plastics Moulding Company.

The type of man for whom we are looking will have served a toolmaking apprenticeship, attained H.N.C. or membership of one of the recognised engineering institutions, had tool design experience and practical administrative experience in a similar position in a toolroom. This position carries responsibility for all aspects of the manufacture of all types of tools including vacuum and sheet forming tools, injection and compression dies, and all associated jigs, fixtures and ancillary equipment.

The successful applicant will be expected to work closely with other technical and administrative personnel.

There is opportunity for an excellent career and applicants should submit details of their age, qualifications and experience to : Box No. 1948, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

PRESS SHOP PLANNING ESTIMATOR

ST. L. O. D. 1. A. T. S. M. R. B. G. A. D. B. H. C.

A Press Shop Planning Estimator is required to estimate for and plan operation sequences of short and medium run press work in a medium-sized company. Plant ranges from flypresses up to 150 ton single stroke power presses, producing mainly steel pressings.

Applicants must have had a minimum of three years' similar experience. This is an attractive opportunity for a man to work on his own initiative.

Write stating age, experience and salary required to :

PERSONNEL OFFICER, HYGIENIC WIRE WORKS LIMITED, MILES ROAD, MITCHAM, SURREY

Experienced Translator required for translation of technical articles, books, etc., into German. Sound knowledge of mechanical or production engineering essential. This is a key position in a rapidly expanding organisation, with prospects of advancement, excellent working conditions and superannuation scheme. Full details to : The Secretary, Production Engineering Research Association, Melton Mowbray, Leicestershire.

Trained and Experienced Engineers. Wiggins, Teape & Co. Ltd. are looking for a small number of trained and experienced engineers to fill vacancies that are shortly to arise in the Company's paper mills, mainly as a result of continued expansion. Suitable applicants will be aged 30-35 with good practical experience of design, development work and instrumentation. It is expected that they will be well qualified, members of an appropriate Institution, and anxious to make their career ostensibly in the engineering side of industry, although there is every opportunity for the right man to transfer to line management. The Company aims to give successful applicants short introductory training covering the principles of paper-making and the work of the various departments in a paper mill before giving them their first appointment, which will probably be of the Assistant Engineer/Project Engineer level. Conditions of employment in this Company are very good, and with its present policy of expansion, it would seem that the prospects are extremely bright for the right man. Applications should be addressed to : The Chief Personnel Officer, Wiggins, Teape & Co. Ltd., Gateway House, 1 Watling Street, London, E.C.4.

COLLEGE OF ADVANCED TECHNOLOGY BIRMINGHAM

Department of Production Engineering

Applications are invited for the post of **LECTURER**. Applicants should be well qualified technically and professionally, and have held a responsible position regarding some aspects of production engineering technology in industry. Experience in development work and experimentation is desirable with ability to develop subjects such as Machine Tools, Metrology and Tool Engineering and other production engineering technology to a high level.

Salary scale : (Men) £1,370 - £1,550.

Further particulars and forms of application from the Bursar, College of Advanced Technology, Gosta Green, Birmingham, 4. Applications to be received within 14 days of this advertisement. Please quote 'N'.

K. R. PILLING. Clerk to the Governors.

THE COLLEGE OF AERONAUTICS

Department of Aircraft Economics and Production

A short course on
AUTOMATIC PRODUCTION AND CONTROL
will be held at the College from
MONDAY, 11th JULY - FRIDAY, 22nd JULY, 1960

The course is intended to serve as an introduction to the subject of Automatic Control as applied to machine tools. Topics to be covered include basic control theory, components and actuators, and complete control systems; a large part of the course will be devoted to experimental work on components and machine tools.

Fees for the course are £60, inclusive of full board residence.

Further details and forms of enrolment may be obtained on application to :
The Warden, The College of Aeronautics, Cranfield, Bletchley, Buckinghamshire.

HATFIELD TECHNICAL COLLEGE

Principal : Dr. W. A. J. Chapman, M.Sc.(Eng.)

★

Applications are invited for the post of
SENIOR LECTURER
to specialise in the teaching of Industrial Administration and allied subjects in the Department of Mechanical and Production Engineering. The person appointed will be expected to participate in the administrative work of the Department and also in the contacts with industry. Candidates should have suitable academic and/or professional qualifications and also teaching and industrial experience. Salary scale : £1,550 × £50 to £1,750.

★

Further particulars and application instructions from :
The Registrar, Hatfield Technical College, Hatfield, Hertfordshire.

ENGLISH ELECTRIC AVIATION LIMITED GUIDED WEAPONS DIVISION

STEVENAGE

HERTS.

Increasing commitments have made available at our Stevenage establishment a number of vacancies for experienced men in the following categories:

SENIOR STANDARDS ENGINEER. Applications are invited from men who have served an apprenticeship and are Graduate or Associate Members of a senior professional institution. They should have had at least three years' experience on Standards work in industries associated with aircraft or electronics.

The successful applicant will have to discuss technical matters with engineers at all levels, in both the design and manufacturing side of the Division.

ELECTRONICS ENGINEERS/TECHNICAL AUTHORS are required to compile technical manuals for electronic, servo and electro mechanical equipment. Applicants must be of H.N.C. standard and possess the ability to write clearly and concisely on technical matters.

These are SENIOR appointments, and the starting salary will be such as to attract the right type of applicant.

SPECIFICATION ENGINEERS/TECHNICIANS are required to prepare design specifications, test and inspection requirements for the complex electronic, servo and electro-mechanical equipment used in a guided weapons project.

Applications are invited from men of O.N.C. or H.N.C. standard experienced in test techniques and specification writing. We would also consider applications from men with O.N.C. who have some years' practical test experience on the types of equipment mentioned.

All these posts command progressive salaries as well as the amenities provided by a large Organisation.

ASSISTANCE WITH HOUSING AND REMOVAL EXPENSES MAY BE GIVEN

Please write in confidence to Dr. D. A. Layne, Dept. C.P.S., Marconi House, 336 - 337 Strand, London, W.C.2, quoting reference PE1310F.

MECHANISATION ENGINEER

★ A vacancy exists for a senior engineer who has a sound production engineering background in the light mechanical engineering industry. Ideally, candidates should have served an apprenticeship, have had design experience and be currently employed in a senior capacity at a salary of not less than £1,500 per annum. Specialisation in the field of automation as applied to light electro-mechanical assemblies is particularly desirable.

★ An attractive starting salary is offered with excellent prospects for future advancement for the right man.

★ The Company operates a pension/life assurance scheme.

★ Applications, in confidence, to : A. M. Brown, Executive Director (Personnel), The Pleassey Co. Ltd., Vicarage Lane, Ilford, Essex (quoting 15/K).

THE GLACIER METAL CO., LTD.

require for their London Factory

A SENIOR PRODUCTION ENGINEER

to lead a team in the examination of production techniques, development of improvements, and the installation of the developed techniques in production. Work will range from short-term action, where immediate returns are the prime objective, to long-term development of new techniques of production lasting up to 12 months. The work will extend into all parts of the factory and requires an understanding of press and machine tools, of the special requirements of high speed transfer machinery, and of foundry and plating practice.

Requirements : Degree, A.M.I.Mech.E., or A.M.I.Prod.E.; apprenticeship or equivalent; experience in methods development desirable. Preferred age, 26 - 35.

Salary range : £950 to £1,350.

Personnel Manager (Ref. 2716/2717), The Glacier Metal Co. Ltd., Ealing Road, Alperton, Wembley, Middlesex

Senior Production Engineer

Advanced Production Techniques

A large, internationally known company, engaged in the manufacture of electronic and allied equipment, is seeking the services of a highly qualified and experienced production engineer.

This senior appointment will carry a wide responsibility, embracing investigations into new and advanced production techniques, the organisation and development of special purpose machines, automation, correlation of tool design and usage, and production layouts for mass-produced commercial products, as well as batch-produced high quality specialised equipments.

Technical qualifications, allied to a wide experience of production engineering in a large, light engineering, electrical or electronic organisation, where advanced production techniques and methods have been successfully applied, are essential requirements.

Drive, initiative, an inventive but practical mind, the ability to withstand continuous periods of intense activity, and a true appreciation of the cost aspects of production, will be required to fill this post satisfactorily. The rewards will be high and the opportunities for personal advancement are considerable.

Apply in the first instance to **Box No. 1951**

I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

Personal Assistant to Works Manager. There is an outstanding opportunity in Cambridge for a man (aged 25-35 years) to enter an expanding organisation. Candidates should have served a recognised apprenticeship in the engineering industry or have equivalent shop floor experience. Experience in the light electrical field or in communications equipment might be considered an advantage but is not essential. Some experience of administration and production planning would also be considered an advantage. Above all, a man is required who is capable of taking responsibility and acting on his own initiative. Full particulars, including details of any supervisory appointments already held (together with a note of salary required), should be addressed to : The Personnel Manager, Pye Telecommunications Ltd., Newmarket Road, Cambridge.

Work Study Engineer required, preferably over 30, with engineering apprenticeship and H.N.C. Applicant should have some years' experience of work and time study in production engineering, with emphasis on light, medium and heavy fabrications. Apply with full particulars to : J. Dewar, Personnel Manager, Lansing Bagnall Ltd., Kingsclere Road, Basingstoke, Hampshire.

HARVEY

MANAGEMENT TRAINEES

G. A. Harvey & Co. (London) Ltd. have several vacancies for young men to be trained to fill managerial positions.

Those applying should have an engineering background, preferably founded on an apprenticeship and supported by Graduate or Associate Membership of either The Institution of Mechanical Engineers or The Institution of Production Engineers.

Preferred age group is 27-34, but consideration will be given to younger men who have exceptional experience or to older ones with experience of sheet metal work or plate fabrication.

A training programme will be arranged to fit successful applicants for responsible managerial positions within the Company. Salaries will be commensurate with age and experience, but are such as will prove attractive to the right men.

Applications, giving full details of age, education, experience and salary, which will be treated in strict confidence, should be addressed to :

The Personnel Manager, G. A. Harvey & Co. (London) Ltd., Greenwich Metal Works, London, S.E.7.

Production Engineer required for group of foundries and engineering shops situated in the North employing over 1,000 men. Applicants should have good knowledge of modern progress and planning and work study methods. Foundry experience desirable but not essential. Good opportunity for thoroughly experienced man, or for younger man able to graduate to higher position. Write full particulars, including salary expected, to Box No. 1945, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

Jig and Tool Designer for work on jigs, tools, fixtures, etc., in our production engineering department. Aged 23-25. Good workshop experience, preferable H.N.C., two years jig and tool design experience. Starting salary up to £16 5s. 0d. per week. Apply : The Personnel Officer, The Glacier Metal Co. Ltd., Ealing Road, Alperton, Wembley, Middlesex, or telephone Perivale 6611.

PRODUCTION MANAGER
for new British subsidiary of
INSTRON ENG. CORP., MASSACHUSETTS, U.S.A.
Manufacturers of
precision materials testing instruments

We are looking for a lively young engineer, age 30-38 years, capable of setting up and managing a production unit initially of about 20 people; must have experience in precision machine shop practice, a working knowledge of electronics and familiarity with a wide variety of sub-contractors.

Following an initial training period of 2-3 months in the U.S.A. he will be located in Buckinghamshire and will be directly responsible to General Manager of subsidiary.

Commencing salary up to £2,000, depending on experience and qualifications. Other benefits.

Box No. 1949, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

CHIEF INDUSTRIAL ENGINEER

Applications are invited for this new senior executive appointment with one of the largest independent carton and box manufacturers in the U.K. with headquarters in the North-West. Commencing salary up to £2,000 per annum, plus substantial fringe benefits and excellent prospects in an organisation which is still growing.

The Chief Industrial Engineer will be responsible to the Controlling Director for the application of sound methods in a group of factories employing nearly 1,500 people, engaged mainly in hand and semi-automatic operations. This will involve the recruitment and development of suitable methods staff and the maintenance of the closest liaison with functional management. On completion of this stage, he will assume full control of the existing time study department and will then be responsible for the systematic application of work study techniques in the widest sense.

Qualifications desired are extensive experience of both method and time study, preferably obtained in light engineering or batch production industry. Experience of selecting and training supervisory staffs would be of advantage, as would A.M.I.Mech.E. or A.M.I.Prod.E. Preferred age 35-45.

Please write briefly in first instance, quoting Reference No. 692, to :



ASHLEY ASSOCIATES LTD.
PETER HOUSE, MANCHESTER 1.

RETAINED TO ADVISE ON THIS APPOINTMENT
The strictest confidence will be observed and no details of candidates will be passed to clients without candidates' permission.

Production Controller ; Time Study Engineer. C. H. Johnson (Machinery) Ltd., a medium-sized engineering Company, manufacturing quality products in the contractors' plant field, has the following vacancies: (1) Production Controller. Applicants should have a sound knowledge of all aspects of production and stock control. (2) Time Study Engineer. Applicants should preferably be experienced in assembly processes and be to H.N.C. standard. The commencing salaries will be in accordance with qualifications and experience. A pension scheme is in operation. Preferable age range 25-40. Applications, in writing, giving age, present salary and background to : The Secretary, C. H. Johnson (Machinery) Ltd., Adswood, Stockport, Cheshire.

PRODUCTION ENGINEER

with experience in workshop practice, production planning and work study is required by leading manufacturers of electric water heating equipment. Previous experience of electric water heating is not required, but applicants must have had a basic workshop training in sheet metal work, machining, light assembly work and other ancillary equipment applicable to line and batch production systems. Preference will be given to energetic men between the ages of 30-35 years with ability to improve economic methods of production. Good salary with yearly bonus. Permanent position with prospects for further advancement for the right man. Pension scheme (non-contributory). If you are ambitious, and have the ability to succeed in a live and expanding organisation, write now to :

**AIDAS ELECTRIC LIMITED, SADIA WORKS,
ROWDELL ROAD, NORTHOLT, MIDDLESEX.**

Senior Planning Engineer. Applications for this responsible post are invited, in strict confidence, by leading coach-builders situated North London area. The position offers good prospects, as we seek a man capable of administering our planning department who will be responsible for all processes in the manufacture of motor car bodies (high-class). We offer a good salary, pension scheme, good conditions, and paid holiday this year. Please write a preliminary letter stating age and experience; address letters, marked "Confidential" to : Personnel Manager, Box No. 1946, I.Prod.E., 10 Chesterfield Street, Mayfair, London, W.1.

EDUCATIONAL APPOINTMENTS

Northampton College of Advanced Technology, St. John Street, London, E.C.1 (Department of Production Technology and Control Engineering).

(1) Applications are invited from Honours graduates for the post of Reader in this newly-formed department. The work of the department is primarily concerned with the Diploma in Technology and post-graduate courses. The person appointed will pursue one of the three main interests of : (i) measurement and automatic control; (ii) production methods and processes; (iii) industrial organisation; and will be required to devote most of his time to the development of research in his chosen field and the supervision of research students. Salary scale : £1,800 \times £50 — £2,100 per annum, plus London allowance of £38, increasing to £51 at age 37. A modicum of private consulting practice by the appointed person will be encouraged. Particulars and forms of application from : The Secretary.

(2) Applications are invited from Honours graduates for the post of Principal Lecturer in Production Methods and Processes. The work of the department is primarily concerned with the Diploma in Technology and post-graduate courses. The person appointed will be responsible for leading the work in his subject at under- and post-graduate Honours level and for developing research and the laboratories of the department. Salary scale : £1,788 \times £50 — £1,951 per annum. A modicum of private consulting practice by the appointed person will be encouraged. Particulars and forms of application from : The Secretary.

(3) Applications are invited from graduates for posts in the class of Lecturers in this newly-formed department. The vacancies arise from the expansion of the work which is primarily concerned with the Diploma in Technology and post-graduate courses. The persons appointed will pursue one of the three main interests of the department, namely : (i) measurement and automatic control; (ii) production methods and processes; (iii) industrial organisation. They will be encouraged to undertake research or development work and may be required to assist in industrial liaison. Salary scales range from £895 to £1,750 per annum with a London allowance at each point of £38 (£51 at age 37 upwards). A modicum of private consulting practice is encouraged. Particulars and forms of application from : The Secretary.

Medway College of Technology (Production Engineering Department).

Lecturer in Production Engineering. Required for September a Lecturer for Production Engineering subjects in the above department. The work mainly consists of theory of machine tools and metrology in the H.N.C. Production Engineering course. Previous experience in teaching to H.N.C. standard is desirable and good industrial training and experience is essential. Candidates should possess either an engineering degree or diploma in technology or a H.N.C. together with membership of a professional Institution. Salary is within the scale of £1,370 to £1,550 per annum and the point of entry to the scale is dependent upon teaching and/or industrial experience. Forms of application and further details can be obtained from : The Principal, H. R. Orr, Esq., B.Sc., Ph.D., Medway College of Technology, Horsted, Maidstone Road, Chatham, Kent (stamped addressed envelope).

Redditch College of Further Education, Easemore Road, Redditch.

Applications are invited immediately from suitably qualified persons for new teaching posts on the opening in September, 1960, of College extensions:

(1) **Assistant Lecturer**, to teach advanced engineering production subjects biased towards control engineering. Some assistance is also needed in work study and management subjects.

(2) **Assistant (Grade B)**, to teach mathematics, mechanics and, if possible, some hydraulics and pneumatics to full- and part-time senior and advanced engineering and agricultural engineering courses. Applicants should have a good H.N.C. Contact with the agricultural engineering industry an advantage.

(3) **Assistant (Grade B)**, to teach workshop technology and practice and related subjects to O.N.C. and craft courses.

(4) **Assistant (Grade B)**, to teach science subjects, including chemistry, to full- and part-time courses.

Basic salary scales: **Lecturer**, £1,370 \times £35 — £1,550.

Assistant (Grade B) — **Man**, £700 \times £27 10s. 0d. — £1,150.

Assistant (Grade B) — **Woman**, £630 \times £22 — £920, plus equal pay increments. Additional allowances for training, degree or equivalent and industrial experience where appropriate: i.e., for Grade B posts. Applicants should have teaching and/or industrial experience relative to the post applied for. Application forms and further information may be obtained from: The County Education Officer (TS), County Education Office, Castle Street, Worcester, on receipt of stamped, addressed foolscap envelope (Y.54).

University of Nottingham.

Research Fellowship in Production Engineering. Engineers, Physicists or Mathematicians interested in the study of production processes or the application of statistics to production problems are invited to apply for the above Fellowship. Value £750 per annum, plus membership of the Universities' superannuation scheme. Industrial or research experience an advantage. Conditions of appointment and application form, to be returned by 31st May, from: The Registrar.

College of Technology (Department of Engineering), Sheffield.

Senior Lecturer in Production Engineering. Applications are invited for the following post, duties to commence 1st September, 1960: Senior Lecturer in Production Engineering to teach machine tool theory, metrology and other production engineering subjects of the new scheme of The Institution of Production Engineers to Higher National Certificate and Higher National Diploma students. The senior lecturer will be responsible for the new, very well-equipped machine tool and metrology laboratories and will be expected to promote research and laboratory work in production engineering subjects and to organise special advanced courses. An interest in the application of automatic control to manufacturing equipment will be welcomed. Applicants should hold graduate or equivalent qualifications, and be adequately experienced in industry and teaching. Salary: £1,550 \times 50 — £1,750 per annum. Application forms, obtainable from: T. H. Tunn, Director of Education, P.O. Box 67, Sheffield, 1, should be returned within 14 days of the appearance of this advertisement (stamped addressed envelope).

Lecturer - Consultant. To satisfy demands for training and consultancy services we need to increase our staff. Applicants should have a good general education and preferably a degree or H.N.C., followed by experience in the engineering industry. Personal qualities and an interest in teaching are important. Practice in work study would be an advantage; otherwise aptitude for training in its application is essential. The ability to contribute in one or more of the following fields is desirable: operational research; drawing office organisation and practice; organisation and methods; factory costing and estimating; industrial psychology; economics. Either a man of experience or a younger man with the necessary potential will be considered. Salary according to ability and experience; superannuation scheme. Apply to: The Director, Department of Work Study and Staff Training, Engineering Employers' West of England Association, Engineers' House, The Promenade, Bristol, 8.

Mid-Warwickshire College of Further Education (Engineering Department), Warwick New Road, Leamington Spa.

Applications are invited for the following full-time appointments, duties to commence on 1st September, 1960:

Senior Lecturer. Candidates must have graduate or equivalent qualifications, good industrial experience, and lecturing experience at H.N.C. or post-H.N.C. level in either Mechanical or Production Engineering subjects. Experience in management subjects or metrology may be of advantage. The post will involve a substantial share in departmental administration.

Lecturer in Mathematics to H.N.C. level. Candidates should have graduate qualifications and extensive experience of teaching of mathematics to technical students. Ability to take Physics to G.C.E. 'A' level and responsible experience in these subjects through a range of courses would be advantages.

Lecturer in Production Engineering to take workshop technology and associated subjects, including workshop practice, to H.N.C. and Final C.G.L.I. level. Candidates should have post-H.N.C. qualifications and good industrial experience. A sound knowledge of machine tools and processes, and ability to take high level practical work is required.

Assistant (Grade B) to take electrical installations subject to at least C.G.L.I. 'B' Certificate level. Candidates must be adequately qualified and have good industrial experience, and must be able to deal with practical installation work. Ability to offer ancillary subjects, or additional mechanical craft subjects, would be an advantage.

Assistant (Grade B) to take agricultural engineering for C.G.L.I. course 260 and 261. Candidates should have engineering or agricultural engineering qualifications and wide experience in the repair and overhaul of tractors and agricultural machinery, including the setting of equipment in the field. A sound knowledge of workshop processes, including welding, is required.

Salary in accordance with the Burnham Technical Report, viz., **Senior Lecturer**, £1,550 \times £50 — £1,750 per annum; **Lecturer**, £1,370 \times £35 — £1,550 per annum; **Assistant (Grade B)**, £700 \times £27 10s. 0d. — £1,150 per annum. In the latter case, suitable additions to minimum will be made for appropriate industrial or teaching experience, or qualifications. Application forms and further details are obtainable from: The Principal, and should be returned within two weeks of the appearance of this advertisement.

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